

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Jens PETERSEN  
Title: **POLYACRYLAMIDE HYDROGEL FOR THE TREATMENT OF INCONTINENCE AND VESICOURETAL REFLUX**  
Appl. No.: 09/938,667  
Filing Date: 08/27/2001  
Examiner: Blessing M. Fubara  
Art Unit: 1618  
Confirmation No. 2505

**DECLARATION OF DAVID A. DIAMOND**

**UNDER 37 CFR § 1.132**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I, David A. Diamond, hereby declare as follows:

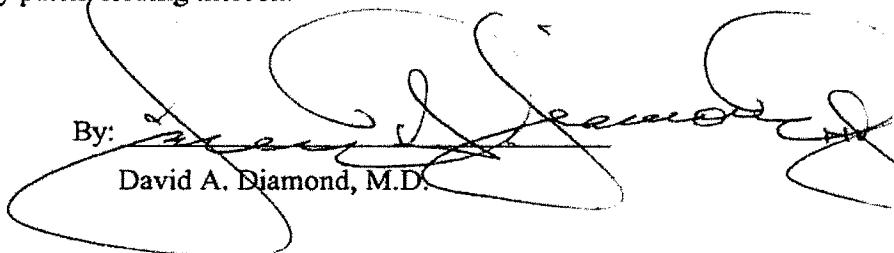
- (1) I am currently employed as an Associate Professor of Surgery (Urology) at Harvard Medical School and as an Associate in Urology at Children's Hospital Boston, in Boston, Massachusetts. I hold the degree of Doctor of Medicine and I am board-certified in the specialty of urology. My qualifications as an expert in urology are detailed in an appended curriculum vitae (APPENDIX 1).
- (2) I am not an inventor of the captioned application, and I have no personal interest in the disposition of the captioned application by the U.S. Patent and Trademark Office (PTO).
- (3) I have reviewed and believe that I understand the captioned application and its pending claims.

- (4) I understand that a PTO action dated January 11, 2008 (“Office Action”), cites against the pending claims a Russian Patent No. 2,148,957 to Sknar. From my review of an English-language translation of the latter document (see APPENDIX 2), I understand the Sknar patent to disclose administration of polyacrylamide hydrogel into the ostium ureteris submucosa of the ureter for the treatment of vesicoureteral reflux (“VUR”) in children.
- (5) I understand that the PTO relies on the Sknar patent for the proposition that it was a known practice, when the captioned application was filed (“the critical date”), to inject a polyacrylamide hydrogel into the ostium of the ureter in order to impede the flow of urine. The PTO also has taken the position, I understand, that a person knowledgeable in urology (A) would have been motivated, at the critical date, to inject acrylamide hydrogel into the ostium of the ureter or into the urethra and (B) would have expected the hydrogel thus to act as a bulking material, increasing resistance to the flow of urine in the ureter or the urethra, thereby to treat urinary incontinence.
- (6) Historically, some medical practitioners have applied injectable bulking substances, previously approved for the treatment of vesicoureteric reflux (“VUR”) in children, to the treatment of very specific types of urinary incontinence in children, including total urinary incontinence due to neurogenic bladder (e.g., myelomeningocele) and congenital defects such as bladder exstrophy or epispadias. In these latter instances, however, the success in treating urinary incontinence with the injectable bulking agents has been poor (no greater than 50%) and apparently unrelated to the substance utilized (e.g., Teflon, silicone, collagen, dextanomer particles). By contrast, pediatric VUR is generally amenable to management with injectable agents (success rates of 80%).
- (7) This difference speaks to the very different pathology of total urinary incontinence versus VUR in children. Total urinary incontinence in children is typically due to the complete absence of a muscular sphincter mechanism at the bladder neck, either anatomically (as in bladder exstrophy or epispadias) or functionally (as in myelomeningocele or other neurological disorders). Vesicoureteric reflux, on the

other hand, is secondary to a weak flap-valve mechanism at the ureterovesical junction. This represents a simpler mechanism, that is more successfully corrected with the use of injectable bulking agents. Indeed, the most common types of urinary incontinence in children are not amenable to treatment with injectable bulking agents.

- (8) Accordingly, I conclude that a person knowledgeable in urology, as of the critical date, would not have presumed or reasonably expected that a given demonstration of using a bulking agent to correct VUR, as the PTO finds in the Sknar patent, would be predictive of success in treating pediatric urinary incontinence with that bulking agent.
- (9) I further declare that all the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements are so made punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 6/5/08

By:   
David A. Diamond, M.D.

## Curriculum Vitae and Bibliography

### **PART I: General Information**

### **APPENDIX 1**

**Date Prepared:** March 31, 2008

**Name:** David Andrew Diamond, M.D.

**Office Address:** Department of Urology  
Children's Hospital  
300 Longwood Avenue  
Boston, MA 02115

**Home Address:** 44 Columbine Road  
Newton, MA 02459

**Work E-Mail:** [david.diamond@childrens.harvard.edu](mailto:david.diamond@childrens.harvard.edu)      **Work Fax:** 617-730-0474

**Place of Birth:** Cape May Court House, New Jersey, USA

### **Education**

1970-1974 A.B. Princeton University, Princeton, NJ

1974-1978 M.D. The University of Rochester School of Medicine and Dentistry, Rochester, NY

### **Postdoctoral Training**

1978-1980 Intern and Junior Resident      Surgery      The University of Vermont School of Medicine, Burlington, VT

1980-1981 Junior Assistant Resident      Urology      The Johns Hopkins University School of Medicine, Baltimore, MD

1981-1982 Clinical Research Fellow      Urology      The Johns Hopkins University School of Medicine, Baltimore, MD

1982-1983 Senior Assistant Resident      Urology      The Johns Hopkins University School of Medicine, Baltimore, MD

1983-1984 Chief Resident      Urology      The Johns Hopkins University School of Medicine, Baltimore, MD

7/84-12/84	Herbert Johnston Research Fellow	Pediatric Urology	The Alder Hey Children's Hospital, The University of Liverpool, Liverpool, England
12/84-6/85	Senior Registrar to Mr. Philip Ransley	Pediatric Urology	The Great Ormond Street Hospital for Sick Children and Institute of Urology, London, England
7/01-6/02	Fellow	Medical Ethics	Harvard Medical School

**Licensure and Certification**

1980	Maryland Medical License
1985	Massachusetts Medical License
1993	Rhode Island Medical License
1979	American Board of Medical Examiners
1986	American Board of Urology
1994	American Board of Urology
2004	American Board of Urology

**Hospital or Affiliated Institution Appointments**

1996-	Associate in Urology	Children's Hospital, Boston, MA
1996-	Consultant	Brigham & Women's Hospital, Boston, MA
1996-	Consultant	Metrowest Medical Center, Framingham, MA
2005-	Associate Clinical Ethicist	Children's Hospital, Boston, MA

**Academic Appointments**

1985-1988	Assistant Professor	Urology & Pediatrics	University of Massachusetts Medical Center, Worcester, MA
1988-1994	Associate Professor	Urology & Pediatrics	University of Massachusetts Medical Center, Worcester, MA
1994-1996	Professor	Urology & Pediatrics	University of Massachusetts Medical Center, Worcester, MA
1996-	Associate Professor of Surgery	Urology	Harvard Medical School

### **Major Visiting Appointments**

1989	Visiting Professor	Brown University, Providence, RI
1991	Visiting Professor	University of Florida, Gainesville, FL
1994	Visiting Professor	University of Minnesota, Minneapolis, MN
1995	Visiting Professor	University of Varese, Varese, Italy
1996	Visiting Professor	Medical College of Wisconsin, Milwaukee, WI
1996	Visiting Professor	Long Island Jewish Hospital, New Hyde Park, Long Island, NY
1996	Visiting Professor	Hospital of Melegnano, Milan, Italy
1999	Visiting Professor	International Meeting on Pediatric Urology, Varese, Italy
1999	Visiting Professor	Hospital of Melegnano, Milan, Italy
2004	Visiting Professor	Henry Ford Hospital, Detroit, MI

### **Major Administrative Responsibilities**

1987-1995	Co-Director Residency Program in Urology	University of Massachusetts Medical Center
1987-1995	Clerkship Director in Urology	University of Massachusetts Medical Center
1989-1995	Senior Scholars Committee, Chairman	University of Massachusetts Medical Center
2006-	Physician's Leadership Council	Children's Hospital, Boston
2006-	Joint Oversight Committee	Children's Hospital, Boston
2006-	Medical Peer Review Committee	Children's Hospital, Boston

## **Major Committee Assignments**

### University of Massachusetts Medical Center

- 1987-1989 Infection Control Committee  
1989-1995 Senior Scholars Committee, Chairman  
1989-1995 Clinical Years Committee  
1989-1995 Surgical Education Committee  
1990-1992 Hospital Executive Committee  
1993-1995 Search Committee- Chairman of Plastic Surgery  
1993-1995 Treatment Issues Committee  
1993-1995 Steering Committee- Children's Medical Center

### Children's Hospital, Boston

- 1996-2003 Library Committee  
1997-2000 Ethics Committee  
2005- Ethics Committee  
2005- Ethics Advisory Committee  
2005- Clinical Research Executive Committee (CREC) NIH Roadmap Subcommittee  
2006 Physician's Leadership Council  
2007 Physician's Leadership Council – Nominating Committee

### National

- 2005 NIH/NIDDK Pediatric Urology Research Strategy Planning Committee

## Professional Societies

- 1984 Johns Hopkins Medical and Surgical Association, Member
- 1985 Massachusetts Medical Society, Member
- 1987 Society for Pediatric Urology, Fellow  
2003-present Research Prize Committee  
2005-2008 Alternate Representative to American College of Surgeons
- 1987 American Urological Association, Member  
2002 Program Committee, New England Section, Chairman  
2004-2006 By Laws Committee, New England Section  
2005 Program Committee, New England Section  
2006 Program Committee, New England Section  
2007 Program Committee, New England Section  
2008 Program Committee, New England Section
- 1987 Society of University Urologists, Member
- 1988 American Academy of Pediatrics, Fellow  
1991 Scientific Research Prize Committee, Urology Section  
1994 Program Committee, Urology Section  
1995 Program Committee, Urology Section  
1996 Program Committee, Urology Section, Chairman  
1996 Annual Meeting Program Committee, Chairman, Urology Section  
1997 Program Committee, Urology Section  
1997-1999 Publications Committee, Urology Section, Chairman  
1997-2000 Executive Committee, Urology Section  
1999-2002 Membership Committee, Urology Section, Chairman  
1999-2008 Registry Review Committee, Urology Section  
2002-2008 Registry Review Committee, Urology Section, Chairman
- 1989 American Association of Pediatric Urology, Member
- 1992 Massachusetts Association of Practicing Urologists, Member
- 1993 Société Internationale D'Urologie, Member  
2006 Consensus Committee on Adolescent Genital Problems
- 1993 European Society for Pediatric Urology, Member
- 1994 Society of Genitourinary Reconstructive Surgeons, Member
- 1995 Boston Surgical Society, Member
- 1996 Norfolk District Medical Society, Member

1996 American College of Surgeons, Fellow  
2005-2008 Society for Pediatric Urology Representative (Alternate)

### **Community Service Related to Professional Work**

1987-present	Interviewer	Alumni Schools Committee, Princeton University
1991-1996	Board Member	Worcester Jewish Community Center
1999-present	Volunteer Member	Physicians for Peace
2006	Board of Directors Member	Temple Emeth, Chestnut Hill, MA

### **Editorial Boards**

1994-1998	Editorial Board	Journal of Urology, Pediatrics Section
2003	Guest Editor	British Journal of Urology International, vol. 92, supplement 1

### **Ad Hoc Reviewer**

1990-	Journal of Urology
1993-	Urology
1997-	British Journal of Plastic Surgery
1999-	Digital Journal of Urology
2000-	Journal of the American Academy of Dermatology
2001-	Journal of Pediatrics
2003-	African Journal of Urology
2004-	Asian Journal of Andrology
2004-	Pediatrics
2004-	Urologic Oncology: Seminars and Original Investigations
2005-	Journal of Pediatric Urology
2005-	Journal of Endourology
2006-	Pediatric Nephrology
2007-	Journal of Experimental Pathology
2007-	The Lancet
2007-	Medical Journal of Australia
2007-	BJU International
2007-	Nature Clinical Practice Nephrology
2008-	Nephrology
2008-	International Brazilian Journal of Urology

## Awards and Honors

- 1965 Eagle Scout, Silver Palm
- 1967 First Prize Pennsylvania Newspaper Publishers Newsboy of the Year Award
- 1974 The Princeton Fencing Award, Princeton University
- 1982 First Prize Mid-Atlantic Section, American Urological Association Essay Contest – Laboratory Research
- 1984 Second Prize, American Urological Association Essay Contest – Laboratory Research
- 1987 First Prize, Biennial Alumni Presentations, Brady Urological Institute, Johns Hopkins Hospital
- 2006 First Prize, Clinical Research, American Academy of Pediatrics Section on Urology, Annual Meeting

## PART II: Research, Teaching, and Clinical Contributions

### Narrative report of research, teaching, and clinical contributions.

I am a pediatric urologist doing clinical care and research. I have had a particular interest in disorders of sexual differentiation which has developed further as an aspect of my interest in medical ethics. In addition, I have been involved in clinical research on the adolescent varicocele and have done translational research on endoscopic correction of vesicoureteric reflux using autologous chondrocytes. I also have a major teaching commitment within the Medical School, regionally and nationally, and have been heavily involved in the American Academy of Pediatrics at a national level.

I have written extensively about disorders of sexual differentiation, including the definitive chapter in the last two editions of Campbell's Textbook of Urology. During my fellowship in medical ethics at Harvard Medical School, I selected as my research project study of the ethical dilemmas related to gender assignment in newborns with ambiguous genitalia and developed a survey instrument to study the knowledge, attitudes and behavior of pediatric urological colleagues nationally about this issue. These results were presented at the 2004 AAP national meeting and published in the Journal of Pediatrics (reference 95). As a result of our work and that of others, colleagues nationally have adopted a particularly careful approach to assignment of gender and urological management of children with disorders of sexual differentiation.

Since 2005 I have served as Associate Clinical Ethicist at Children's Hospital. I have continued to write about ethical aspects of intersex disorders (Clinical Communications 1 & 2) and have been selected as Director of a Children's Hospital consultation service that provides a coordinated subspecialty approach to patients with disorders of sexual differentiation.

My appointment at Children's Hospital Boston has afforded me a robust clinical practice, such that I perform over 400 surgical procedures and see over 3,600 outpatients per year. While this has included referrals for intersex disorders, among the more common referrals has been adolescent varicocele and vesicoureteric reflux.

In 2001 I began as principal investigator of the Adolescent Varicocele study at Children's Hospital, with the goal of improving our understanding of this widespread lesion. We embarked upon a long-term study to determine whether or not early surgery improved outcomes in terms of semen analysis and ultrasound calculated testicular growth. This represents the first national prospective, randomized study of adolescent varicocele. We have enlisted partner institutions, including Children's Hospital of Philadelphia, Vanderbilt Children's Hospital, Children's Hospital of Wisconsin, and Rainbow Babies Hospital. To date, our research has focused on the indications for surgical correction of varicocele, including the accuracy of our clinical tools for determining impaired growth of the involved testis and more recently its correlation with semen analysis results (references 65, 73, 80, 84, 92, Review 8). Our work on this subject received first prize in clinical research at the 2006 Annual Meeting of the American Academy of Pediatrics Section on Urology. While it is difficult to quantitate changes in clinical practice nationally, I believe that our studies have encouraged colleagues to be more selective in recommending surgery.

I was principal investigator in the clinical trial at Children's Hospital of the use of autologous chondrocytes to correct vesicoureteric reflux endoscopically (references 57, 68, 79, 82). This study

represented the first clinical application of tissue engineering in Urology. The results of our study demonstrated this technique to be effective. However, funding for the project was discontinued when an alternative substance became the first to receive FDA approval.

I have enjoyed teaching at all levels – of medical students, residents, fellows and colleagues – and the teaching leadership roles that I have held. While at the University of Massachusetts I was co-Director of the Urology Residency for eight years and responsible for training and evaluation of residents and all pediatric urology training. I directed the Urology Clerkship for 4th year medical students and chaired the Senior Scholars Committee for the Medical School. At Children's Hospital, in my teaching of urology residents from the four Boston urology residency programs and pediatric urology fellows, I have emphasized safety, conservatism and surgical humility.

I have also enjoyed educational writing – both formally in peer reviewed journals and texts and also more informally in AUA Update Series, Dialogues in Pediatric Urology and Society of Pediatric Urology newsletters. Over the years I have been surprised by the impact that my informal writings have had on urology residents nationally.

At a national level I have been most heavily involved in leadership of the American Academy of Pediatrics Section of Urology. I have particularly enjoyed serving as annual program Chair (1996) as well as Chairman of three committees. I have also served on committees for the NIH/NIDDK and the Society for Pediatric Urology. In the course of my career I have seen pediatric urology develop from a small, somewhat informal subspecialty to the only subspecialty recognized by the American Board of Urology, in 2005, with a certificate of added qualification. This has formally established pediatric urology as a subspecialty clinically, academically and politically. It is my hope that in some way my own professional activities have contributed to our subspecialty's recognition.

### **Funding Information.**

- |           |  |
|-----------|--|
| 1986      | Biomedical Research Support Grant, University of Massachusetts Medical Center. The Effects of Cyclosporin A on Male Fertility, Principal Investigator.                       |
| 1997-2002 | Reprogenesis Inc., Endoscopic Correction of Vesicoureteric Reflux Using Autologous Chondrocytes, Principal Investigator and Director of Clinical Trial.                      |
| 1999-2001 | Urosurge Inc., Use of a Transurethral, Self-Detachable Balloon System for Urinary Incontinence in Pediatric Patients, Principal Investigator and Director of Clinical Trial. |
| 2001      | American Association of Pediatric Urologists Research Grant, Varicocele in Adolescents.  |

### **Report of Current Research Activities.**

Principal Investigator, Adolescent Varicocele Study, Children's Hospital, Boston, MA.

Director, Children's Hospital, Disorders of Sexual Differentiation Consultation Service.

## Report of Teaching.

### 1. Local contributions

#### Local invited teaching presentations

##### Medical students

1985-1995 University of Massachusetts Medical Center.

Pediatrics Grand Rounds – UTI in Children, Intersex Disorders, Prenatal Hydronephrosis, Undescended Testis

Surgery Grand Rounds – Male Epispadias, Undescended Testis, Bladder Exstrophy, Laparoscopy in Pediatric Urology

I was an invited lecturer for Grand Rounds in each of these departments annually. The attendees of the Grand Rounds included medical students, residents and faculty. The preparation time for each of these lectures was approximately 10 hours.

##### Graduates

1985-1995 University of Massachusetts Medical Center  
Urology Grand Rounds

I was an invited lecturer for these Grand Rounds monthly. My topics included all aspects of pediatric urology such as urinary tract infection in children, vesicoureteric reflux, prenatal hydronephrosis, the undescended testis, hypospadias and bladder exstrophy. The preparation time for these lectures was approximately 10 hours.

1985-2006 Harvard Medical School  
Countway Urology Rounds

During the 21 years that I have been in the Boston area I have presented regularly at Countway Urology Rounds, the major teaching conference for urology residency, urology residents, urology faculty in the Greater Boston area. Lectures varied from topics including "paratesticular parodies" to varicocele and intersex disorders. These lectures would require between 10 and 20 hours to prepare.

1996-2006 Children's Hospital, Boston.  
Uroradiology Lectures

Congenital Abnormalities – Duplication Anomalies, Undescended Testis, Prenatal Hydronephrosis

Neonatal Urological Emergencies

Adolescent Varicocele

Endoscopic Correction of Reflux

ALARA Concept in Diagnosis of Vesicoureteric Reflux

I have been invited to present uroradiology lectures bi-annually. The audience includes Radiology and Urology faculty, residents, and medical students. The preparation time for each of these lectures has been approximately 10 hours.

- 2002 Children's Hospital Nephrology Fellows Conference  
Endoscopic Correction of Reflux

The audience included Nephrology fellows and Urology residents. The preparation time was approximately 10 hours.

Faculty

- 2002 Children's Hospital Boston, Surgical Grand Rounds  
Adolescent Varicocele.

The audience included Surgical faculty, residents and medical students. The preparation time was approximately 12 hours.

- 2000, 2003 Pediatrics Grand Rounds, Metrowest Medical Center

Roughly every three years I am invited to present Pediatrics Grand Rounds to pediatric faculty at Metrowest Medical Center. These topics have included voiding dysfunction in children, urinary tract infection and vesicoureteric reflux and its treatment. The preparation time has been approximately 10 hours.

- 1996-2005 Boston University Urology Grand Rounds

Once a year I have presented at Boston University's Urology Grand Rounds to medical students and graduate students and faculty on topics such as urethral reconstruction, endoscopic correction of reflux, duplication anomalies of the urinary tract. These presentations have required approximately 8 hours to prepare.

Continuing medical education courses

Faculty

- 2003 Advances in Pediatric Health Care Post Graduate Course, Beverly Hospital  
Neonatal Urological Emergencies

The audience included Pediatric faculty and residents. The preparation time has been approximately 10 hours.

- 2005      Advances in Pediatric Health Care Post Graduate Course, Metrowest Medical Center  
Urinary Tract Infections in Children
- The audience included Pediatric faculty and residents. The preparation time has been approximately 10 hours.
- 2006, 2007    Harvard Medical School course on pediatric and adolescent gynecology.
- In this review course for gynecology faculty regionally and nationally, my topic is urological problems in girls. Preparation time for this lecture is approximately 10 hours.
- 2006, 2007    Harvard Bioethics Course.
- Invited Discussion Group Leader.

Advisory and supervisory responsibilities

Graduates

- 1996-2001    Clinical Supervisor Urology Clinic, Children's Hospital, 150 hours per year.

Teaching leadership

Medical students

- 1987-1995    Clerkship Director in Urology, University of Massachusetts Medical Center

Urology was one of a group of required surgical sub-specialties at University of Massachusetts Medical Center. We had one or two students rotating on the service at any given time. Urology became a popular specialty and a number of medical students from University of Massachusetts have entered the field.

- 1989-1995    Chairman, Senior Scholars Committee, University of Massachusetts Medical Center

In 1989 a new program was developed at University of Massachusetts Medical Center which enabled seniors to concentrate in their area of intended residency training which included two clinical rotations and one month of research. I was chairman of this committee and responsible for enabling students to identify an advisor in their field of interest. I was also responsible for coordinating the research activities for the Senior Scholars in the Surgery Department. At the end of the year, I organized a program whereby the Senior Scholars presented their research to the Medical School faculty. On graduation, those seniors who had completed a Senior Scholars project were recognized accordingly by the Dean of the Medical School.

Graduates

1987-1995 Director of Residency Program in Urology, University of Massachusetts Medical Center

The University of Massachusetts Medical Center Residency Program in Urology was approved in 1985 and at that time it was the first new Urology program in the United States in 10 years. I assumed the co-directorship of the Residency in 1987. It rapidly developed into a highly respected and competitive program, attracting excellent candidates nationally.

Names of advisees or trainees

Pediatric Urology Fellows

1994-1996	Dix Poppas, MD	Richard Rogers Family Associate Professor of Pediatric Urology, Weill Cornell Medical Center, New York, NY
1995-1998	Martin Kaefer, MD	Assistant Professor of Urology, Riley Hospital for Children, Indianapolis, IN
1996-1998	Joseph Borer, MD	Assistant in Urology, Children's Hospital, Boston, MA
1997-1999	John Park, MD	Associate Professor & Chief of Pediatric Urology, University of Michigan, Ann Arbor, MI
1998-2000	Hiep T. Nguyen, MD	Assistant Professor Surgery (Urology), Children's Hospital, Boston, MA
1999-2001	Jonathan Roth, MD	Assistant Professor of Urology, Temple University School of Medicine, Philadelphia, PA
2000-2002	Hans G. Pohl, MD	Staff Urologist, National Children's Hospital, George Washington University, Washington, DC
2001-2003	Roger De Filippo, MD	Assistant Professor of Urology, University of Southern California & Los Angeles Children's Hospital, Los Angeles, CA
2001-2004	Dawn L. McLellan, MD	Assistant Professor of Urology, Dalhousie University Medical Center, Halifax, Nova Scotia
2002-2005	Chester Koh, MD	Assistant Professor of Urology, University of Southern California & Los Angeles Children's Hospital, Los Angeles, CA
2002-2006	Carlos Estrada, MD	Instructor in Surgery (Urology), Children's Hospital, Boston, MA
2002-2007	Richard Lee, MD	Instructor in Surgery (Urology), Children's Hospital, Boston, MA

2. Regional, national or international contributions

Invited presentations

Regional

- 1994      Invited lecturer. Brown University Update in Urology, Colby College.  
Neonatal Urological Emergencies.
- Faculty/invited lecturer. New England Section, American Urological Association.  
Management of the Impalpable Testis.
- 1995      Invited lecturer. Brown University Update in Urology, Newport, RI.  
Laparoscopy in Pediatric Urology.
- 1997      Faculty/invited lecturer. New England Section, American Urological Association.  
Laparoscopy in Pediatric Urology.
- 2005      Faculty/invited lecturer. New England Section, American Urological Association.  
Endoscopic Treatment of Vesicoureteric Reflux.

National

- 1988      Invited lecturer. Ferris Memorial Lecture in Pediatric Urology. Wilmington Medical Center, Wilmington, DE.  
The Undescended Testis.
- 1989      Invited lecturer. Post Graduate Course in Pediatric Urology. University of Michigan, Ann Arbor, MI.  
Prenatal Hydronephrosis.
- 1991      Faculty/lecturer. Society for Pediatric Urology, American Urological Association. The Undescended Testis.
- 1993      Faculty/lecturer. Post Graduate Course in Pediatric Urology. American Urological Association.  
Prenatal Hydronephrosis and Urinary Tract Infection and Vesicoureteric Reflux in Children.
- 1994      Faculty/invited lecturer. Society of Genitourinary Reconstructive Surgeons. Male Epispadias Repair.
- 1995      Faculty/invited lecturer. Urodynamics Society. American Urological Association.  
Bladder Neck Reconstruction.

- 1997 Faculty/invited lecturer. Society for Pediatric Urology, American Urological Association.  
Male Epispadias Repair.
- 1998 Faculty/invited lecturer. American Urological Association.  
Optimal Management of the Impalpable Testis.
- 2000 Faculty/invited lecturer. American Urological Association.  
Adolescent Patient-Varicocele.
- Faculty/invited lecturer. American Society of Pediatric Nephrology.  
Prenatal Hydronephrosis.
- Faculty/invited lecturer. Southern California, Permanente Urology Symposium.  
Laparoscopy in Pediatric Urology and Neonatal Urological Emergencies.
- 2002 Faculty/invited lecturer. Section of Urology, American Academy of Pediatrics.  
Academic Authorship – The Harvard Guidelines.
- 2004 Faculty/invited lecturer. American Urological Association.  
Adolescent Varicocele.
- Faculty/invited lecturer. Post graduate course, Pediatric Urology, American Urological Association.  
Adolescent Varicocele and Prenatal Hydronephrosis.
- 2005 Faculty/invited lecturer. Post graduate course, Pediatric Urology, American Urological Association.  
Prenatal Hydronephrosis and Adolescent Varicocele.
- Faculty/invited lecturer. Section of Urology, American Academy of Pediatrics.  
Microsurgical Spermatic Vein Ligation for Varicocele.
- 2006 Faculty/invited lecturer. The ALARA Concept in Pediatric International and Fluoroscopic Imaging.  
Society for Pediatric Radiology.
- Faculty/invited lecturer. Post graduate course, Pediatric Urology, American Urological Association.  
Prenatal Hydronephrosis and Adolescent Varicocele.
- 2007 Faculty/invited lecturer. Post graduate course, Pediatric Urology, American Urological Association.  
Prenatal Hydronephrosis and Adolescent Varicocele.

- 2008 Faculty/invited lecturer. Society for Pediatric Urology.  
Adolescent Varicocele.
- 2008 Faculty/invited lecturer. Society for Fetal Urology.  
Ethical Issues in Fetal Urology.
- 2008 Faculty/invited lecturer. American Urological Association Basic Science Review Course.  
Disorders of Sexual Differentiation.

*International*

- 1999 International Meeting on Pediatric Urology, Varese, Italy.  
Endoscopic Treatment of Vesicoureteric Reflux with Autologous Chondrocytes.
- Faculty/invited lecturer. Egyptian Urological Association.  
Neonatal Urological Emergencies.
- 2000 Faculty/invited lecturer. Egyptian Urological Association.  
Adolescent Varicocele.
- 2002 Faculty/invited lecturer. Egyptian Urological Association.  
Endoscopic Treatment of Vesicoureteric Reflux with Autologous Chondrocytes.
- 2003 Faculty/invited lecturer. Brazilian Congress of Pediatric Surgery and Pediatric Urology.  
Adolescent Varicocele, Endoscopic Treatment for Vesicoureteric Reflux with Autologous Chondrocytes, and Ethical Dilemmas in Gender Assignment in Newborns with Intersex.
- 2004 Faculty/invited lecturer. Simpson-Smith Symposium, Great Ormond Street, Hospital for Sick Children, Institute of Child Health, London, UK.  
Adolescent Varicocele.
- Faculty/invited lecturer. SIU Oncology Meeting/Egypt.  
Transitional Cell Carcinoma of the Bladder in Children.
- 2005 Faculty/invited lecturer. Bolivian Congress of Pediatric Urology.  
Adolescent Varicocele, The Undescended Testis, Prenatal Hydronephrosis, and Robotic Surgery in Pediatric Urology.
- 2007 Faculty/invited lecturer. II World Congress of the Federation of Associations of Pediatric Surgeons, Buenos Aires, Argentina.  
Hypospadias and Disorders of Sexual Differentiation.

- 2007 Faculty/invited lecturer. Bolivian Congress of Pediatric Urology.  
An Argument Against Endoscopic Treatment of VUR.  
Transitional Cell Carcinoma in Children.  
Disorders of Sexual Differentiation.

Professional and educational leadership role

Regional

- 2002 Chairman, New England Section, Annual Meeting Program Committee

One of the major responsibilities of Program Chairman was to select speakers for this meeting and I chose the first guest lecturer in medical ethics to speak at a urology meeting regionally or nationally as well as the first lecturer in robotic surgery to speak at the regional meeting.

National

- 1996 Chairman, American Academy of Pediatric Urology Section, Annual Meeting Program Committee.

In designing this meeting a number of important changes were introduced, most notably the first video forum for description of innovative surgical techniques in pediatric urology.

- 1997-1999 Chairman, American Academy of Pediatrics Urology Section, Publications Committee.

My appointment as Chairman of the Publications Committee dovetailed with my participation on the inaugural editorial board of the pediatric section of the Journal of Urology. Establishment of a dedicated pediatrics section to our major urological journal was considered pivotal in establishing pediatric urology as a formal subspecialty. As Chairman of the Publications Committee, I was responsible for insuring that those papers selected for presentation at the national meeting at the American Academy of Pediatrics would be subsequently submitted for publication to the Journal of Urology or another peer reviewed journal. As a result of the committee's work, the pool of submitted manuscripts available to promote education and clinical expertise in our subspecialty was considerably strengthened.

- 1997-2000 Executive Committee, American Academy of Pediatrics Urology Section.

During my tenure on the Executive Committee tremendous accomplishments were made by the Urology Section of the AAP. A coordinating council was developed which oversaw all of the major political societies within the specialty in order to promote subspecialty status for pediatric urology. This proved, in time, to be extremely effective. The annual meetings during this period of time grew in size and stature. The national meeting of the AAP became recognized as the finest international pediatric

urology meeting of the year. The number of fellowship programs increased from thirteen to approximately twenty. And, pediatric urology was awarded a designated section within the Journal of Urology.

2002-2008 Chairman, American Academy of Pediatrics Urology Section, Registry Review Committee.

The objective of this committee is to promote and review pediatric urological patient registries. A significant aspect of our committee's work recently has been to coordinate the governance of registries across our specialty amongst all major societies such that no two registries are in competition and to engender the broadest clinical, academic and financial support for pediatric urology registries nationally.

### **Report of Clinical Activities.**

#### Description of clinical practice.

My practice at Children's Hospital is an active one, such that I perform over 400 surgical procedures and see 3,600 outpatients per year. My major interests have been in pediatric andrology, the adolescent varicocele in particular, and disorders of sexual differentiation. I have started the first prospective study of adolescents with varicocele nationally at Children's Hospital. I also have maintained an active interest in medical ethics, in general, and as it relates to pediatric urology in my service as Associate Clinical Ethicist at Children's Hospital.

#### Clinical contributions.

Program development: Adolescent Varicocele Study

Clinical Supervisor, Urology Clinic, Children's Hospital,  
1996-2001

Director, Disorders of Sexual Differentiation Consultation  
Service, 2006

### Part III: Bibliography

#### Original Articles

1. Diamond DA, Jeffs RD, Marshall FF. Control of Prolonged Benign Renal Hematuria by Silver Nitrate Instillation. *J Urol* 1981;18(4):337-41.
2. Diamond DA, Berry SJ, Umbricht C, Jewett HJ, Coffey DS. Computerized Image Analysis of Nuclear Shape as a Prognostic Factor for Prostatic Cancer. *The Prostate* 1982; 3(4):321-32.
3. Diamond DA, Marshall FF. Spontaneous Rupture of the Ureter. Diagnosis and Management. *J Urol* 1982;128:808-10.
4. Diamond DA, Berry SJ, Jewett HJ, Eggleston JC, Coffey DS. A New Method to Assess Metastatic Potential of Prostatic Cancer-Relative Nuclear Roundness. *J Urol* 1982;128:729-34.
5. Marshall FF, Reitz BA, Diamond DA. A New Technique for Management of Renal Cell Carcinoma Involving the Right Atrium: Hypothermia and Cardiac Arrest. *J Urol* 1984;131: 103-7.
6. Diamond DA, Sanders R, Jeffs R. Fetal Hydronephrosis: Considerations Regarding Urological Intervention. *J Urol* 1984;131:1155-9.
7. Diamond DA, Barrack ER. Relationship of Androgen Receptor Levels to Androgen Responsiveness in the Dunning R3327 Rat Prostate Tumor Sublines. *J Urol* 1984;132:821-7.
8. Diamond DA, Jeffs RD. Cloacal Exstrophy: A 22-Year Experience. *J Urol* 1985;133:779-82.
9. Diamond DA, Jeffs RD. Incidental Ganglioneuroblastoma. *J Urol* 1986;273:254-7.
10. Diamond DA, Rickwood AMK, Thomas DG. Penile Erections in Myelomeningocele Patients. *Br J Urol* 1986;58: 434-5.
11. Diamond DA, Ransley PG. Bladder Neck Reconstruction with Omentum, Silicone and Augmentation Cystoplasty - A Preliminary Report. *J Urol* 1986;136:252-5.
12. Diamond DA, Ransley PG. Fogarty Balloon Catheter Ablation of Neonatal Posterior Urethral Valves. *J Urol* 1987;137:1209-11.
13. Seethalakshmi L, Menon M, Diamond DA. The Effect of Streptozotocin-Induced Diabetes on the Neuroendocrine-Male Reproductive Tract Axis of the Adult Rat. *J Urol* 1987;138:190-4.
14. Seethalakshmi L, Menon M, Malhotra RK, Diamond DA. Effect of Cyclosporine on Male Reproduction in Rats. *J Urol* 1987;138:991-5.
15. Diamond DA, Ransley PG. Use of the Anterior Detrusor Tube in Managing Urogenital Sinus Anomalies. *J Urol* 1987;138:1057-9.

16. Wollin M, Marshall FF, Fink MP, Malhotra RK, Diamond DA. Aberrant Epididymal Tissue: A Significant Clinical Entity. *J Urol* 1987;138:1247-50.
17. Seethalakshmi L, Diamond DA, Malhotra RK, Mazanitis SG, Kumar S, Menon M. CsA Induced Testicular Dysfunction: A separation of the Nephrotoxic Component and an Assessment of a 60-Day Recovery Period. *Transplantation Proceedings* 1988;20 Suppl 3: 1005-10.
18. Kauli RB, Strezelecki T, McGraw B, Takayama T, Seethalakshmi L, Diamond DA, Menon M. Responses of Renal Cortical Mitochondria to Cyclosporine Following Warm Ischemia and Cold Preservation. *Transplantation Proceedings* 1989;21 Suppl 1:1258-60.
19. Seethalakshmi L, Menon M, Kauli RB, Diamond DA. Cyclosporine: Its Harmful Effects on Testicular Function and Male Fertility. *Transplantation Proceedings* 1989;21:928-30.
20. Wollin MR, Duffy PG, Diamond DA, Aquirre J, Ratta BS, Ransley PG. Priorities in Urinary Diversion Following Pyeloplasty. *J Urol* 1989;142 Suppl 2:576-8.
21. Diamond DA, Menon M, Lee PH, Rickwood AMK, Johnston J.H. Etiologic Factors in Pediatric Stone Recurrence. *J Urol* 1989;142 Suppl 2:606-8.
22. Diamond DA., Blight A, Ransley PG. Ammoniagenic Coma: A Complication of the Prune Belly Syndrome. *J Urol* 1989;142:361-2.
23. Diamond DA, Ford C. Neonatal Bladder Rupture: A Complication of Umbilical Artery Catheterization. *J Urol* 1989;142:1543-4.
24. Seethalakshmi L, Bala R, Flores C, Carbone AA, Malhotra RK, Diamond DA, Menon M. Cyclosporine: Its Effects on Testicular Function and Fertility in the Prepubertal Rat. *J Androl* 1990;2(1):17-24.
25. Seethalakshmi L, Flores C, Diamond DA, Menon M. Reversal of the Toxic Effects of Cyclosporine on Male Reproduction and Kidney Function of Rats by Simultaneous Administration of hCG and FSH. *J Urol* 1990;144:1489-92.
26. Lee PH, Diamond DA. A Rare Cause of Isolated Lower Pole Hydronephrosis: Primary Obstructive Megaureter. *Urol* 1991;37:344-6.
27. Diamond DA, Blight A, Ransley PG. Ammonia Levels in Pediatric Uretero-sigmoidostomy Patients: A Screen for Hyperammonemia? *Br J Urol* 1991;67:541-4.
28. Diamond DA. Clinical Patterns of Pediatric Urolithiasis. *Br J Urol* 1991;68:195-8.
29. Lee PH, Diamond DA, Duffy PG, Ransley PG. Duplex Reflux: A Study of 105 Children. *J Urol* 1991;146:657-9.

30. Diamond DA, Flores C, Kumar S, Malhotra RK, Seethalakshmi L. The Effects of an LHRH Analog on Testicular Function in the Cryptorchid Rat. *J Urol* 1992;147:264-9.
31. Diamond DA, Breitfeld PP, Bur M, Gang D. Melanotic Neuroectodermal Tumor of Infancy: An Important Mimicker of Paratesticular Rhabdomyosarcoma. *J Urol* 1992;147:673-5.
32. Diamond DA, Ford C. Neonatal Gross Hematuria as a Presenting Sign of Posterior Urethral Valves. *Urol* 1992;40:267-9.
33. Diamond DA, Caldamone AA. The Value of Laparoscopy for 106 Impalpable Testes Relative to Clinical Presentation. *J Urol* 1992;148:632-4.
34. Diamond DA, Rickwood AMK, Lee PH, Johnston JH. Infection Stones in Children - A 27-Year Review. *Urol* 1994;43:525-7.
35. Kleinman PK, Diamond DA, Karella A, Spevak MR, Nimkin K, Belanger P. Tailored Low Dose VCUG for the Re-evaluation of Vesicoureteral Reflux in Girls. *Am J Radiol* 1994;162:1151-4.
36. Liu HYA, Dillon HK, Young CK, Duffy PG, Diamond DA, Ransley PG. Clinical Outcome and Management of Prenatally Diagnosed Primary Megareter. *J Urol* 1994;152:614-7.
37. Diamond DA, Caldamone AA, Elder JS. Prevalence of the Vanishing Testis in Children with a Unilateral Impalpable Testis: Is the Side of Presentation Important? *J Urol* 1994;152:502-3.
38. Diamond DA, Ransley PG. Improved Glanuloplasty in Epispadias Repair - Technical Aspects. *J Urol* 1994;152:1243-5.
39. Diamond DA, Price HM, McDougall EM, Bloom DA. Retroperitoneal Laparoscopic Nephrectomy in Children. *J Urol* 1995;153:1966-8.
40. Balaji KC, Diamond DA. Laparoscopic Diagnosis and Management of Transverse Testicular Ectopia. *Urol* 1995;46:879-80.
41. Diamond DA, Kleinman PK, Spevak MR, Nimkin K, Belanger P, Karella A. Tailored Low Dose Fluoroscopic Voiding Cystogram for Familial Reflux Screening. *J Urol* 1996;155:681-2.
42. Hoenig DM, Diamond DA, Rabinowitz R, Caldamone AA. Contralateral Reflux after Unilateral Ureteral Reimplantation. *J Urol* 1996;156:196-7.
43. Hoenig DM, McRae S, Chen SC, Diamond DA, Rabinowitz R, Caldamone AA. Transitional Cell Carcinoma of the Bladder in the Pediatric Patient. *J Urol* 1996;156:203-5.
44. Quimby GF, Diamond DA, Mor Y, Saidi Z, Ransley PG. Bladder Neck Reconstruction: Long-term Followup of Reconstruction with Omentum and Silicone Sheath. *J Urol* 1996;156:629-32.

45. Diamond DA, Rabinowitz R, Hoenig D, Caldamone AA. The Mechanism of New Onset Contralateral Reflux following Unilateral Ureteroneocystostomy. *J Urol* 1996;156:665-7.
46. Balaji KC, Caldamone AA, Rabinowitz R, Ortenberg J, Diamond DA. Splenogonadal Fusion. *J Urol* 1996;156:854-6.
47. Wojcik LJ, Hansen K, Diamond DA, Koyle M, Koff SA, Coplen DE, Caldamone AA. Cystic Dysplasia of the Rete Testis: A Benign Congenital Lesion Associated with Ipsilateral Urological Anomalies. *J Urol* 1997;158:600-4.
48. Hurwitz RS, Shapiro E, Hulbert WC, Diamond DA, Casale AJ, Rink RC. Scrotal Cystic Lymphangioma: The Misdiagnosed Scrotal Mass. *J Urol* 1997;158:1182-5.
49. Hutcheson J, Peters CA, Diamond DA. Amiodarone Induced Epididymitis in Children. *J Urol* 1998;160:515-7.
50. Cisek LJ, Peters CA, Atala A, Bauer SB, Diamond DA, Retik AB. Current Findings in the Diagnostic Laparoscopic Evaluation of the Nonpalpable Testis. *J Urol* 1998;160:1145-9.
51. Diamond DA, Parulkar BG. Ureteral Tailoring In Situ: A Practical Approach to Persistent Reflux in the Dilated Reimplanted Ureter. *J Urol* 1998;160:998-1000.
52. Borer JG, Bauer SB, Peters CA, Diamond DA, Dechter RM, Shapiro E. A Single-System Ectopic Ureter Draining an Ectopic Dysplastic Kidney: Delayed Diagnosis in the Young Female with Continuous Urinary Incontinence. *Br J Urol* 1998;81:474-8.
53. Kaefer M, Diamond DA, Hendren WH, Vemulapalli S, Bauer SB, Peters CA, Atala A, Retik AB. Incidence of Intersexuality in Children With Cryptorchism and Hypospadias: Stratification Based on Gonadal Palpability and Meatal Position. *J Urol* 1999;162:1003-8.
54. Kaefer M, Andler R, Bauer SB, Hendren WH, Diamond DA, Retik AB. Urodynamic Findings in Children With Isolated Epispadias. *J Urol* 1999;162:1172-6.
55. Diamond DA, Caldamone AA. Endoscopic Correction of Vesicoureteral Reflux in Children Using Autologous Chondrocytes: Preliminary Results. *J Urol* 1999;162:1185-9.
56. Diamond DA, Bauer SB, Dirlenc C, Hendren WH, Peters CA, Atala A, Kelly M, Retik AB. Normal Urodynamics in Patients With Bladder Exstrophy: Are They Achievable? *J Urol* 1999;162:841-6.
57. Caldamone AA, Shyh-Chyan C, Elder JS, Ritchey ML, Diamond DA, Koyle MA. Congenital Anterior Urethrocutaneous Fistula. *J Urol* 1999;162:1430-2.
58. Borer JG, Cisek LJ, Atala A, Diamond DA, Retik AB, Peters CA. Pediatric Retroperitoneoscopic Nephrectomy Using 2 MM Instrumentation. *J Urol* 1999;162:1725-30.

59. Grotas JA, Diamond DA, Vargas SO. Granular Cell Tumor of the Penis in a Five-Year-Old Boy. *J Urol* 2000;163:Suppl 1:154.
60. Diamond DA, Quimby GF, Rink RC, Ransley PG. Use of the Silastic Sheath in Bladder Neck Reconstruction. *Digital J Urol* 2000, May.
61. Park JM, Houck CS, Sethna NF, Sullivan LJ, Atala A, Borer JG, Cilento BG, Diamond DA, Peters CA, Retik AB, Bauer SB. Ketorolac Suppresses Post-operative Bladder Spasms after Pediatric Ureteral Reimplantation. *Anesth Analg* 2000;91:11-15.
62. Diamond DA, Bauer SB, Retik AB, Atala A. Initial Experience with Transurethral Self-Detachable Balloon System for Urinary Incontinence in Pediatric Patients. *J Urol* 2000;164:942-6.
63. Diamond DA, Paltiel HJ, DiCanzio J, Zurakowski D, Bauer SB, Atala A, Ephraim PL, Grant RH, Retik AB. Comparative Assessment of Pediatric Testicular Volume: Orchidometer Versus Ultrasound. *J Urol* 2000;164:1111-4.
64. Borer JG, Bauer SB, Peters CA, Diamond DA, Atala A, Cilento BG Jr, Retik AB. Tubularized Incised Plate Urethroplasty: Expanded Use in Primary and Repeat Surgery for Hypospadias. *J Urol* 2000;165:581-5.
65. Kaefer M, Curran M, Treves ST, Bauer SB, Hendren WH, Peters CA, Atala A, Diamond DA, Retik AB. Sibling vesicoureteral reflux in multiple gestation births. *Pediatrics* 2000;105:800-4.
66. Caldamone AA, Diamond DA. Long-term Results of the Endoscopic Correction of Vesico-ureteral Reflux in Children using Autologous Chondrocytes. *J Urol* 2001;165:2224-7.
67. Baker LA, Docimo SG, Peters C, Cisek L, Diamond DA, Caldamone A, Koyle M, Strand W, Moore R, Mevorach R, Brady J, Jordan G, Erhard M, Surer I, Franco I. A Multi-Institutional Analysis of Laparoscopic Orchidopexy. *BJU Int* 2001;87:484-9.
68. Leschek EW, Chan WY, Diamond DA, Kaefer M, Jones J, Barnes KM, Cutler GB Jr. Nodular Leydig Cell Hyperplasia in a Boy with Familial Male-Limited Precocious Puberty. *J Pediatr* 2001;138:949-51.
69. Nguyen HT, Diamond DA. Dismembered V-flap Pyeloplasty: Advantages Over the Anderson-Hynes Repair. *J Urol* 2001;161(1):233-5.
70. Nguyen HT, Bauer SB, Diamond DA, Retik AB. Rectus Fascial Sling for the Treatment of Neurogenic Sphincteric Incontinence in Boys: Is it safe and effective? *J Urol* 2001;166:658-61.
71. Paltiel HJ, Diamond DA, DiCanzio J, Zurakowski D, Borer JG, Atala A. Testicular Volume: Comparison of Orchidometer and US Measurements in Dogs. *Radiol* 2002;222:114-9.

72. Pohl HG, Bauer SB, Borer JG, Diamond DA, Kelley MD, Grant R, Briscoe CJ, Doonan G, Retik AB. The Outcome of Voiding Dysfunction Managed with Clean Intermittent Catheterization in Neurologically and Anatomically Normal Children. *BJU Int* 2002;89:923-7.
73. McLellan DL, Retik AB, Bauer SB, Diamond DA, Atala A, Mandell J, Lebowitz RL, Borer JG, Peters CA. Rate and Predictors of Spontaneous Resolution of Prenatally Diagnosed Primary Nonrefluxing Megaureter. *J Urol* 2002;168:2177-80.
74. Diamond DA, Pohl HG. Use of a Colon-Based Tubularized Flap for an Antegrade Continence Enema. *J Urol* 2003;169:324-6.
75. Cilento BG Jr, Diamond DA, Yeung CK, Manzoni G, Poppas DP, Hensle TW. Laparoscopically-Assisted Ureterocystoplasty. *BJU Int* 2003;91:525-7.
76. Diamond DA, Borer JG, Peters CA, Cilento BG Jr, Sorcini A, Kaefer M, Paltiel HJ. Neonatal Scrotal Hematoma: Mimicker of Neonatal Testicular Torsion. *BJU Int* 2003;91:675-7.
77. Diamond DA, Caldamone AA, Bauer SB, Retik AB. Mechanisms of Failure of Endoscopic Treatment of Vesicoureteral Reflux Based on Endoscopic Anatomy. *J Urol* 2003;170:1556-8.
78. Diamond DA, Roth JA, Cilento BG Jr, Barnewolt CE. Infratesticular Varicocele in Adolescents: A Reversible Anechoic Lesion of the Testis. *J Urol* 2004;171:381-3.
79. Gargollo PC, Barnewolt CE, Diamond DA. Calcified Ureteral Stricture in a Child with Polyarteritis Nodosa. *J Urol* 2004;171:1254:5.
80. Paltiel HJ, Diamond DA, Zurakowski D, Drubach LA, Atala A. Transurethral subureteric injection of autologous chondrocytes for treatment of vesicoureteral reflux: sonographic imaging features. *Radiol* 2004;232:390-7.
81. McLellan DL, Gaston MV, Diamond DA, Lebowitz RL, Mandell J, Atala A, Bauer SB. Anterior urethral valves and diverticula in children: a result of ruptured Cowper's duct cyst? *BJU Int* 2004;94:375-8.
82. Diamond DA, Zurakowski D, Atala A, Bauer SB, Borer JG, Cilento BG, Paltiel H, Peters CA, Retik AB. Is adolescent varicocele a progressive disease process? *J Urol* 2004;172:1746-8.
83. Gargollo PC, Barnewolt CE, Diamond DA. Pediatric ceftriaxone nephrolithiasis. *J Urol* 2005;173:577-8.
84. Lee RS, Retik AB, Borer JG, Diamond DA, Peters CA. Pediatric retroperitoneal laparoscopic partial nephrectomy: Comparison with an age matched cohort of open surgery. *J Urol* 2005; 174:708-12.
85. Gargollo PC, Kozakewich HP, Bauer SB, Borer JG, Peters CA, Retik AB, Diamond DA. Balanitis xerotica obliterans in boys. *J Urol* 2005;174(4), Part 1 of 2:1409-12.

86. Eaton SH, Cendron MA, Estrada CR, Bauer SB, Borer JG, Cilento BG, Diamond DA, Retik AB, Peters CA. Intermittent testicular torsion: diagnostic features and management outcomes. *J Urol* 2005;174(4), Part 2 of 2:1532-5.
87. Borer JG, Gargollo PC, Kinnamon DD, Bauer SB, Khoshbin S, Hendren WH, Peters CA, Diamond DA, Atala A, Chin S, Retik AB. Bladder growth and development after complete primary repair of bladder exstrophy in newborn with comparison to staged approach. *J Urol* 2005;174(4), Part 2 of 2:1555-8.
88. Gargollo PC, Borer JG, Retik AB, Peters CA, Diamond DA, Atala A, Barnewolt CE. Magnetic resonance imaging of pelvic musculoskeletal and genitourinary anatomy in patients before and after complete primary repair of bladder exstrophy. *J Urol* 2005;174(4), Part 2 of 2:1559-66.
89. Borer JG, Gargollo PC, Hendren WH, Diamond DA, Peters CA, Atala A, Grant R, Retik AB. Early outcome following complete primary repair of bladder exstrophy in the newborn. *J Urol* 2005;174(4), Part 2 of 2:1674-9.
90. Alukal JP, Zurakowski D, Atala A, Bauer SB, Borer JG, Cilento BG Jr, Mandell J, Peters CA, Paltiel HJ, Retik AB, Diamond DA. Testicular hypotrophy does not correlate with grade of adolescent varicocele. *J Urol* 2005;174:2367-70.
91. Huang WY, Peters CA, Zurakowski D, Borer JG, Diamond DA, Bauer SB, McLellan DL, Rosen S. Renal biopsy in congenital ureteropelvic junction obstruction: Evidence for parenchymal maldevelopment. *Kidney Int* 2006; 69:137-43.
92. Sung T, Riedlinger WFJ, Diamond DA, Chow, JS. Solid extratesticular masses in children: radiographic and pathologic correlation. *Am J Roentgenol* 2006; 186:483-90.
93. Diamond DA, Burns JP, Mitchell C, Lamb K, Kartashov AI, Retik AB. Sex Assignment for Newborns with Ambiguous Genitalia and Exposure to Fetal Testosterone: Attitudes and Practices of Pediatric Urologists. *J Pediatr* 2006;148:445-9.
94. Eisner BH, McAleer SJ, Gargollo PC, Perez-Atayde A, Diamond DA, Elder JS. Pediatric penile tumors of mesenchymal origin. *Urol* 2006;68(6):1327-30.
95. Higham-Kessler J, Reinert SE, Snodgrass WT, Hensle TW, Koyle MA, Hurwitz RS, Cendron M, Diamond DA, Caldamone AA. A review of failures of endoscopic treatment of vesicoureteral reflux with dextranomer microspheres. *J Urol* 2007;177:710-15.
96. Diamond DA, Zurakowski D, Bauer SB, Borer JG, Peters CA, Cilento BG Jr, Paltiel HJ, Rosoklja I, Retik AB. Relationship of varicocele grade and testicular hypotrophy to semen parameters in adolescents. *J Urol* 2007; 178:1584-8.
97. Passerotti C, Cendron M, Gargollo P, Diamond DA, Borer JG, Cilento B, Bauer S, Retik AB, Peters CA, Nguyen HP. Minimally invasive surgical approaches to retrovesical structures. *Int J Med Robotics Comput Assist Surg* 2007; 3:307-11.

## Proceedings of Meetings

1. Seethalakshmi L, Flores C, Diamond DA, Menon M. The Effects of Cyclosporine on the Pituitary Control of Testosterone Biosynthesis in Rats. Proceedings of the 4th International Congress of Andrology. Morduzzi Editore, Bologna: 319-329, 1989.
2. Diamond DA. NIH/NIDDK Workshop: Research Progress Report and Strategic Plan for Pediatric Urology. Adelphi, MD; 2007.

## Reviews

1. Walsh PC, Diamond DA. Radical Prostatectomy for Carcinoma of the Prostate: Who will Benefit? Geriatric Medicine Today 1983;2(2): 42-53.
2. Diamond DA, Ransley PG. Male Epispadias. J Urol 1995;154:2150-5.
3. Chang B, Borer JG, Tan PE, Diamond DA. Large-cell Calcifying Sertoli Cell Tumor of the Testis: Case Report and Review of the Literature. Urol 1998;52:520-3.
4. Caldamone AA, Diamond DA. Contemporary Hypospadiology. Symposium, part 1. Contemporary Urology, April, 1999, 16-43..
5. Caldamone AA, Diamond DA. Contemporary Hypospadiology. Symposium, part 1. Contemporary Urology, May, 1999, 61-77.
6. Hoffman MA, Diamond DA. Do Fluoroquinolones Have a Role in Pediatric Urinary Tract Infections? Infections in Medicine 2000;May, 334-44.
7. Borer JG, Tan PE, Diamond, DA. The Spectrum of Sertoli Cell Tumors in Children. Urol Clin North Am 2000; 27(3):529-41.
8. Roth JA, Diamond DA. Prenatal Hydronephrosis. Curr Opin Ped 2001;13:138-41.
9. Diamond DA. Adolescent Varicocele: Emerging Understanding. BJU Int 2003;92(1): 48-51.
10. Badwan KH, Diamond DA. Vesicoureteral reflux: diagnosis and management. Lebanese Med J 2005;53(2):61-5.
11. Lee RS, Diamond DA, Chow JS. Applying the ALARA concept to the evaluation of vesicoureteric reflux. Ped Radiol 2006 (electronic publication).
12. MacLellan DL, Diamond DA. Recent advances in external genitalia. In: Mesrobian H-GO, Pan CG, editors. Recent Advances in Pediatric Urology and Nephrology. WB Saunders Company. Pediatr Clin N Am 2006;53:449-64.
13. Diamond D. Adolescent varicocele. Curr Opin Urol 2007;17:263-7.

14. Gargollo PC, Diamond DA. Therapy Insight: What nephrologists need to know about primary vesicoureteral reflux. *Nat Clin Pract Nephrol* 2007; 3:551-63.

## Clinical Communications

1. Diamond DA, Sytsma S, Dreger A, Wilson B. Case Study: Culture Clash Involving Intersex. *The Hastings Center Report* 2003;33(4):12-4.
2. Diamond DA. Clinical Case. Partial Androgen Insensitivity Syndrome. Commentary. *AMA (Virtual Mentor) Clinical Case*, November 2005.

## Chapters

1. Diamond DA, Jeffs RD. Urological Intervention for Fetal Hydronephrosis. In: Kaufman JJ, editor. *Current Urologic Therapy*, 2nd Edition, Philadelphia: WB Saunders, 1985.
2. Menon M, Diamond DA. Struvite (Infection) Stones. In: Glasscock RJ, editor. *Current Therapy in Nephrology and Hypertension: Volume II*. Philadelphia, BC Decker, Inc, 1987, pp. 98-102.
3. Wollin M, Diamond DA, Menon M. Hormonal Therapy for Advanced Carcinoma of the Prostate. In: Williams RD, editor. *Advances in Urologic Oncology*. Vol. 1. General Perspectives. New York: Macmillan Publishing Company; 1987, pp. 131-62.
4. Diamond DA, Menon M. Pyelolithotomy and Ureterolithotomy, including the Dorsal Lumbotomy. In: Rous SN, editor. *Stone Disease: Diagnosis and Management*. Grune and Stratton, Orlando, 1987, pp. 243-70.
5. Diamond DA. Bacterial Urinary Tract Infections in Girls. In: Rackel R, editor. *Conn's Current Therapy*. Philadelphia, WB Saunders, 1990, pp. 609-10.
6. Diamond DA. Prenatal Hydronephrosis: Current Concepts. In: Rous SN, editor. *Urology Annual*. Appleton, 1991, pp. 235-54.
7. Liu HYA, Diamond DA, Menon M. Struvite (Infection) Stones. In: Glasscock RJ, editor. *Current Therapy in Nephrology and Hypertension: Volume III*. St. Louis, BC Decker Inc, 1991, pp. 98-102.
8. Diamond DA. Intersex Disorders. In: Stein BS, Caldamone AA, Smith JA Jr, editors. *Clinical Urologic Practice*. Norton, New York, 1993, pp. 1547-66.
9. Diamond DA. Urologic Intervention for Fetal Hydronephrosis. In: Hanno PM, Seidman EJ, editors. *Current Urologic Therapy*, 3rd Edition. Philadelphia, WB Saunders, 1994, pp. 17-18.
10. Diamond DA. Urethrovaginal Fistula. In: Hinman F, editor. *Atlas of Pediatric Urologic Surgery*. Philadelphia, WB Saunders, 1994, p. 671.

11. Diamond DA. Reconstruction of Male Epispadias. In: Marshall FF, editor. *Textbook of Operative Urology*. Philadelphia, WB Saunders, 1996, p. 985-91.
12. Diamond DA, Gosalbez R. Neonatal Urologic Emergencies. In: Walsh PC, Vaughan ED, Retik AB, Wein AJ, editors. *Campbell's Urology*, Seventh Edition. Philadelphia, WB Saunders, 1998, p. 1629-54.
13. Diamond DA. Epispadias Repair. In: Ehrlich RM, Alter GI, editors. *Reconstructive and Plastic Surgery of the External Genitalia: Adult and Pediatric*. Philadelphia, WB Saunders, 1998, pp. 207-11.
14. Diamond DA, Peters CA. Perinatal Urology. In: Barrett TM, Avner ED, Harmon W, editors. *Pediatric Nephrology*, 4th Edition. Baltimore, Williams and Wilkins, 1999, pp. 897-912.
15. Kaefer M, Diamond DA. Vesicoureteral Reflux. In: Gonzales ET Jr, Bauer SB, editors. *Pediatric Urology Practice*. Philadelphia, Lippincott-Williams & Wilkins, 1999, pp. 463-86.
16. Borer JG, Diamond DA. Ureteral Reimplantation. Ch. 16 In: Krane RJ, Siroky MB, Fitzpatrick J, editors. *Operative Urology: Surgical Skills*. London, Churchill Livingstone, 2000, pp. 99-106.
17. Diamond DA, Retik AB. Posterior Urethral Valves. Ch. 46 In: Krane RJ, Fitzpatrick J, Siroky MB, editors. *Operative Urology: Surgical Skills*. London, Churchill Livingstone, 2000, pp. 301-4.
18. Diamond DA, Retik AB. Endoscopic surgery of Urethral Valves and Ureteroceles. In: Frank JD, Gearhart JP, Snyder HM, editors. *Operative Pediatric Urology*. London, Churchill Livingstone, 2002, pp. 31-8.
19. Diamond DA. Sexual Differentiation: Normal and Abnormal. In: Walsh PC, Vaughan ED, Retik AB, Wein AJ, editors. *Campbell's Urology*, Eighth Edition. Philadelphia, WB Saunders, 2002, pp. 2395-2427.
20. Diamond DA, Herrin JT. Renal Venous Thrombosis. In: Hansen AR, Puder M, editors. *Manual of Neonatal Surgical Intensive Care*. Hamilton, BC Decker Inc, 2003, pp. 328-33.
21. Koh CJ, Diamond DA. Ureteroceles. In: Graham SD, editor. *Glenn's Urologic Surgery*, 6<sup>th</sup> edition. Philadelphia, Lippincott Williams and Wilkins, 2004, pp. 766-9.
22. Diamond DA, Peters CA. Perinatal Urology. In: Avner ED, Harmon W, Niaudet P, editors. *Pediatric Nephrology*, 5<sup>th</sup> Edition. Philadelphia, Lippincott, Williams and Wilkins, 2004, pp. 73-82.
23. Koh CJ, Diamond DA. Posterior Urethral Valves. In: Puri P, Höllwarth ME, editors. *Pediatric Surgery*, 1st edition. Springer Surgery Atlas Series. Springer, 2006, pp. 523-528.

24. Diamond DA. Sexual Differentiation: Normal and Abnormal. In: Campbell-Walsh Urology, Ninth edition. Wein AJ, Kavoussi LR, Novick AC, Partin AW, Peters CA, editors. Saunders Elsevier, Philadelphia, 2007, pp. 3799-3829.
25. Chow J, Diamond DA. Radiological Assessment of Ureteral Anomalies and Reflux. In: Clinical Pediatric Urology, 5<sup>th</sup> edition. Docimo SG, Canning DA, and Khoury AE, editors. WB Saunders. In Press.
26. Diamond DA. Epispadias Repair. In: Hinman F Jr and Baskin L, editors. Atlas of Pediatric Urologic Surgery, 2nd edition. Philadelphia, WB Saunders, 2007, pp. 617-20.
27. Diamond DA. Female Urethrovaginal Fistula. In: Hinman F Jr and Baskin L, editors. Atlas of Pediatric Urologic Surgery, 2nd edition. Philadelphia, WB Saunders, 2007, pp. 667-70.

## Editorials

1. Diamond DA. Laparoscopic Orchidopexy for Intra-abdominal Testis. *J Urol* 1994;152:1257-8.
2. Diamond DA. Pediatric Urology Medal: Philip G. Ransley. *J Urol* 2002;68:1669-70.
3. Diamond DA. Editorial Comment: Belman BA, Rushton HG. Is an empty left hemiscrotum and hypertrophied right descended testis predictive of perinatal torsion? *J Urol* 2003;170:1675.
4. Diamond DA. Editorial Comment: Cayan S, Acar D, Ulger S, Akbay E. Adolescent varicocele repair: Long-term results and comparison of surgical techniques according to optical magnification use in 100 cases at single university hospital. *J Urol* 2005;174:2006.
5. Diamond DA. Editorial Comment: Carmignani L, Salvioni R, Gadda F, Colecchia M, Gazzano G, Torelli T, Rocco F, Colpi GM, Pizzocaro G. Long-term follow-up and clinical characteristics of testicular Leydig cell tumor: Experience with 24 cases. *J Urol* 2006;176(5):2040-3; discussion 2043.
6. Diamond DA. Editorial Comment: Benoit RM, Peele PB, Cannon GM Jr, Docimo SG. The cost-effectiveness of Dextranomer/hyaluronic acid copolymer for the management of vesicoureteral reflux. 2. Reflux correction at the time of diagnosis as a substitute for traditional management. *J Urol* 2006; 176(6):2649-2653.
7. Diamond DA. Editorial Comment: Afshar K, Blake T, Jaffari S, MacNeily AE, Poskitt K, Sargent M. Spinal cord magnetic resonance imaging for investigation of nonneurogenic lower urinary tract dysfunction - Can the yield be improved? *J Urol* 2007; 178:1748-51.
8. Diamond DA. Editorial Comment: Kass E. Varicocelectomy in adolescent boys: long-term experience with the Palomo procedure. *J Urol* 2008; In Press.

## **Books, Monographs, and Text Books**

1. Diamond DA. Longterm Prognosis in Patients with Posterior Urethral Valves. Monograph for the Urological Society of India. Posterior Urethral Valves, 1996.

## **Educational Material**

1. Diamond DA. Intersex Disorders. Part I. AUA Update Series. Ball T, Novicki D, editors. Volume 9, Lesson 9, 1990.
2. Diamond DA. Intersex Disorders. Part II. AUA Update Series. Ball T, Novicki, D, editors. Volume 9, Lesson 10, 1990.
3. Diamond DA, editor. Management of Cloacal Exstrophy. Dialogues in Pediatric Urology, 13:3. March, 1990.
4. Diamond DA, Menon, M. Pediatric Urolithiasis. AUA Update Series. Ball T, Novicki D, editors. Volume 10, Lesson 40, 1991.
5. Diamond DA, editor. Laparoscopy in Pediatric Urology. Dialogues in Pediatric Urology, Volume 15, 1992.
6. Diamond DA. The Silastic Foam Dressing. Dialogues in Pediatric Urology. Ehrlich RM, editor. Volume 16, 1993.
7. Diamond DA. Wilms' Tumor. In: Objectives for Urology Residency Education. Resnick M, editor. Society of University Urologists, 1993.
8. Cilento BG Jr, Diamond DA. Neonatal Urological Emergencies. In: Objectives for Urology Residency Education. Wein A, editor. Society of University Urologists, 1999.
9. Diamond DA. Genetics in CAH. Dialogues in Pediatric Urology. Kaefer M, editor. Volume 23, 2000.
10. The Children's Hospital Guide to Your Child's Health and Development. Woolf AD, Kenna MA, Shane HC, editors. Perseus Publishing, Cambridge 2001. Urological Consultant.
11. Diamond DA, Quimby GF, Rink RC, Ransley PG. Use of the silastic sheath in bladder neck reconstruction. The Scientific World Journal 2004;4(S1):103-7.
12. Diamond DA. Disorders of sexual differentiation. In: AUA Residency Core Curriculum, 2008.

## **Nonprint Materials**

1. Diamond DA. Disorders of Sexual Differentiation [audiotape]. Audio Digest, Vol. 14, Number 11, 1991.

2. Diamond DA, Borah G. Colonic Neovagina for the Mayer-Rokitansky Syndrome [videocassette]. American Urological Association, San Antonio, 1993.
3. Diamond DA, Ransley PG. The Modified Cantwell Epispadias Repair [videocassette]. Video Urology Times, Vol. 7, Program 1, 1994.
4. Diamond DA, Cohen SM. Intraabdominal Transverse Testicular Ectopia: Laparoscopic Diagnosis and Management [videocassette]. American Urological Association, San Francisco, 1994 and European Society of Pediatric Urology, Gotegorg, Sweden, 1994.
5. Diamond DA, Price HM. Pediatric Retroperitoneal Laparoscopic Nephrectomy [videocassette]. American Urological Association, Las Vegas, 1994, American College of Surgeons Clinical Congress, New Orleans, 1995.
6. Cisek LJ, Diamond DA, Peters CA. Evaluation of the Nonpalpable Testis with 2mm Laparoscopic Instrumentation [videocassette]. 16th World Congress on Endourology and SWL. New York, 1998.

### **Newsletters**

1. Diamond DA. Hydrometrocolpos. Society for Pediatric Urology Newsletter, 1988.
2. Diamond DA. Cystographic Pitfall with the Psoas Bladder Hitch Operation for the Wide Ureter. Society for Pediatric Urology Newsletter, 1989.
3. Diamond DA. Transitional Cell Carcinoma of the Bladder in Children. Urologist's Correspondence Club, 1990.
4. Diamond DA. Fat Necrosis. Society for Pediatric Urology Newsletter, 1991.
5. Diamond DA. Recurrent Ureteropelvic Junction Obstruction. Urologist's Correspondence Club, 1992.